

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/618,852
Source: IFW16
Date Processed by STIC: 3/19/07

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)**
- 2. U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):** U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06.

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/618,852

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed** 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. **Please ensure your subsequent submission is saved in ASCII text.**
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for **each** skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If **intentional**, please insert the following lines for **each** skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of **n** or **Xaa**, and which residue **n** or **Xaa** represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses
 Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can **only** represent a single nucleotide; "Xaa" can **only** represent a single amino acid



IFW16

RAW SEQUENCE LISTING

DATE: 03/19/2007

PATENT APPLICATION: US/10/618,852

TIME: 14:33:19

Input Set : N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt

Output Set: N:\CRF4\03192007\J618852.raw

3 <110> APPLICANT: INVITROGEN CORPORATION
 5 <120> TITLE OF INVENTION: SUBSCRIPTION BASED SYSTEMS, METHODS AND COMPONENTS FOR PROVIDING

6 GENOMIC AND PROTEOMIC PRODUCTS AND SERVICES

8 <130> FILE REFERENCE: IVGN 334

10 <140> CURRENT APPLICATION NUMBER: 10/618,852

11 <141> CURRENT FILING DATE: 2003-07-15

13 <150> PRIOR APPLICATION NUMBER: 60396241

14 <151> PRIOR FILING DATE: 2002-07-17

16 <160> NUMBER OF SEQ ID NOS: 43

18 <170> SOFTWARE: PatentIn version 3.3

20 <210> SEQ ID NO: 1

21 <211> LENGTH: 15

22 <212> TYPE: DNA

23 <213> ORGANISM: Artificial

25 <220> FEATURE:

26 <223> OTHER INFORMATION: Wild-type att site

28 <400> SEQUENCE: 1

29 gcttttttat actaa

32 <210> SEQ ID NO: 2

33 <211> LENGTH: 21

34 <212> TYPE: DNA

35 <213> ORGANISM: Artificial

37 <220> FEATURE:

38 <223> OTHER INFORMATION: Artificial sequence

40 <400> SEQUENCE: 2

41 caactttttt atacaaagtt g

44 <210> SEQ ID NO: 3

45 <211> LENGTH: 25

46 <212> TYPE: DNA

47 <213> ORGANISM: Artificial

49 <220> FEATURE:

50 <223> OTHER INFORMATION: attB1

52 <400> SEQUENCE: 3

53 agcctgcttt ttgtacaaa ctgtg

56 <210> SEQ ID NO: 4

57 <211> LENGTH: 233

58 <212> TYPE: DNA

59 <213> ORGANISM: Artificial

61 <220> FEATURE:

62 <223> OTHER INFORMATION: attP1

64 <400> SEQUENCE: 4

65 tacagggtcac taataccatc taagtagttg attcatagtg actggatatg ttgtgtttta 60

67 cagtattatg tagtctgttt tttatgcaaa atctaattta atatattgat atttatatca 120

Does Not Comply
 Corrected Diskette Needed
 (pg. 4-5) @

- What is the source of genetic material?
 Invalid Response

- What is the source of genetic material?
 Invalid Response

See item #11
 on error summary sheet.

Same error

Same error

RAW SEQUENCE LISTING

DATE: 03/19/2007

PATENT APPLICATION: US/10/618,852

TIME: 14:33:19

Input Set : N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt

Output Set: N:\CRF4\03192007\J618852.raw

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69 ttttacgttt ctggttcagc tttttgtac aaagttggca ttataaaaaa gcattgctca      180
71 tcaatttggt gcaacgaaca ggctactatc agtcaaaata aaatcattat ttg          233
74 <210> SEQ ID NO: 5
75 <211> LENGTH: 100
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial
79 <220> FEATURE:
80 <223> OTHER INFORMATION: attL1
82 <400> SEQUENCE: 5
83 caaataatga ttttattttg actgatagtg acctgttcgt tgcaacaaat tgataagcaa      60
85 tgctttttta taatgccaac tttgtacaaa aaagcaggct          100
88 <210> SEQ ID NO: 6
89 <211> LENGTH: 125
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial
93 <220> FEATURE:
94 <223> OTHER INFORMATION: attR1
96 <400> SEQUENCE: 6
97 acaggtttgt acaaaaaaagc tgaacagagaa acgtaaaatg atataaastat caatatatta      60
99 aattagattt tgcataaaaa acagactaca taatactgta aaacacaaca tatccagtc      120
101 ctatg          125
104 <210> SEQ ID NO: 7
105 <211> LENGTH: 4
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Factor Xa cleavage site
112 <400> SEQUENCE: 7
114 Ile Glu Gly Arg
115 1
118 <210> SEQ ID NO: 8
119 <211> LENGTH: 4
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Thrombin cleavage site
126 <400> SEQUENCE: 8
128 Leu Val Pro Arg
129 1
132 <210> SEQ ID NO: 9
133 <211> LENGTH: 27
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial
137 <220> FEATURE:
138 <223> OTHER INFORMATION: attB0
140 <400> SEQUENCE: 9
141 agcctgcttt tttataactaa cttgagc
144 <210> SEQ ID NO: 10
145 <211> LENGTH: 27

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Same error

Same error

Same error

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/618,852

DATE: 03/19/2007

TIME: 14:33:19

Input Set : N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt

Output Set: N:\CRF4\03192007\J618852.raw

146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial
149 <220> FEATURE:
150 <223> OTHER INFORMATION: attP0
152 <400> SEQUENCE: 10
153 gttcagcttt tttataactaa gttggca
156 <210> SEQ ID NO: 11
157 <211> LENGTH: 27
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial
161 <220> FEATURE:
162 <223> OTHER INFORMATION: attL0
164 <400> SEQUENCE: 11
165 agcctgcttt tttataactaa gttggca
168 <210> SEQ ID NO: 12
169 <211> LENGTH: 27
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial
173 <220> FEATURE:
174 <223> OTHER INFORMATION: attR0
176 <400> SEQUENCE: 12
177 gttcagcttt tttataactaa cttgagc
180 <210> SEQ ID NO: 13
181 <211> LENGTH: 27
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial
185 <220> FEATURE:
186 <223> OTHER INFORMATION: attP1
188 <400> SEQUENCE: 13
189 gttcagcttt tttgtacaaa gttggca
192 <210> SEQ ID NO: 14
193 <211> LENGTH: 27
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial
197 <220> FEATURE:
198 <223> OTHER INFORMATION: attL1
200 <400> SEQUENCE: 14
201 agcctgcttt tttgtacaaa gttggca
204 <210> SEQ ID NO: 15
205 <211> LENGTH: 25
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial
209 <220> FEATURE:
210 <223> OTHER INFORMATION: attR1
212 <400> SEQUENCE: 15
213 gttcagcttt tttgtacaaa cttgt
216 <210> SEQ ID NO: 16
217 <211> LENGTH: 25
218 <212> TYPE: DNA

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*Same
errors*

RAW SEQUENCE LISTING

DATE: 03/19/2007

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TIME: 14:33:19

Input Set : N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt

Output Set: N:\CRF4\03192007\J618852.raw

219 <213> ORGANISM: Artificial
221 <220> FEATURE:
222 <223> OTHER INFORMATION: attB2
224 <400> SEQUENCE: 16
225 acccagcttt cttgtacaaa gtggt
228 <210> SEQ ID NO: 17
229 <211> LENGTH: 27
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial
233 <220> FEATURE:
234 <223> OTHER INFORMATION: attP2
236 <400> SEQUENCE: 17
237 gttcagcttt cttgtacaaa gttggca
240 <210> SEQ ID NO: 18
241 <211> LENGTH: 27
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial
245 <220> FEATURE:
246 <223> OTHER INFORMATION: attL2
248 <400> SEQUENCE: 18
249 acccagcttt cttgtacaaa gttggca
252 <210> SEQ ID NO: 19
253 <211> LENGTH: 25
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial
257 <220> FEATURE:
258 <223> OTHER INFORMATION: attR2
260 <400> SEQUENCE: 19
261 gttcagcttt cttgtacaaa gtggt
264 <210> SEQ ID NO: 20
265 <211> LENGTH: 22
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial
269 <220> FEATURE:
270 <223> OTHER INFORMATION: attB5
272 <400> SEQUENCE: 20
273 caactttatt atacaaagtt gt
276 <210> SEQ ID NO: 21
277 <211> LENGTH: 27
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial
281 <220> FEATURE:
282 <223> OTHER INFORMATION: attP5
284 <400> SEQUENCE: 21
285 gttcaacttt attatacaaaa gttggca
288 <210> SEQ ID NO: 22
289 <211> LENGTH: 24
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial

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Same
errors

RAW SEQUENCE LISTING

DATE: 03/19/2007

PATENT APPLICATION: US/10/618,852

TIME: 14:33:19

Input Set : N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt

Output Set: N:\CRF4\03192007\J618852.raw

293 <220> FEATURE:
294 <223> OTHER INFORMATION: attL5
296 <400> SEQUENCE: 22
297 caacttttatt atacaaagtt ggca
300 <210> SEQ ID NO: 23
301 <211> LENGTH: 25
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial
305 <220> FEATURE:
306 <223> OTHER INFORMATION: attR5
308 <400> SEQUENCE: 23
309 gttcaactttt attatacaaaa gttgt
312 <210> SEQ ID NO: 24
313 <211> LENGTH: 22
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial
317 <220> FEATURE:
318 <223> OTHER INFORMATION: attB11
320 <400> SEQUENCE: 24
321 caacttttct atacaaagtt gt
324 <210> SEQ ID NO: 25
325 <211> LENGTH: 27
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial
329 <220> FEATURE:
330 <223> OTHER INFORMATION: attP11
332 <400> SEQUENCE: 25
333 gttcaactttt tctatacaaaa gttggca
336 <210> SEQ ID NO: 26
337 <211> LENGTH: 24
338 <212> TYPE: DNA
339 <213> ORGANISM: Artificial
341 <220> FEATURE:
342 <223> OTHER INFORMATION: attL11
344 <400> SEQUENCE: 26
345 caacttttct atacaaagtt ggca
348 <210> SEQ ID NO: 27
349 <211> LENGTH: 25
350 <212> TYPE: DNA
351 <213> ORGANISM: Artificial
353 <220> FEATURE:
354 <223> OTHER INFORMATION: attR11
356 <400> SEQUENCE: 27
357 gttcaactttt tctatacaaaa gttgt
360 <210> SEQ ID NO: 28
361 <211> LENGTH: 22
362 <212> TYPE: DNA
363 <213> ORGANISM: Artificial
365 <220> FEATURE:

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Same
errors

See item

11 on

error
summary
sheet

The type of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 03/19/2007

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Input Set : N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt

Output Set: N:\CRF4\03192007\J618852.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27

Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43

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Input Set : N:\efs\03_19_07\10618852_efs\IVGN334ST25.txt

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